2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2,2,2-Trifluoroacetyl)oxy 2,2,2-trifluoroacetate

Othernames:	Decaethylene glycol bis(trifluoroacetate)
	32,32,32-Trifluoro-31-oxo-3,6,9,12,15,18,21,24,27,30-decaoxadotriacont-1-yl trifluoroacetate
Inchi:	InChI=1S/C24H40F6O13/c25-23(26,27)21(31)42-19-17-40-15-13-38-11-9-36-7-5-34-3-1-
InchiKey:	FQNGKEIYOVGRJO-UHFFFAOYSA-N
Formula:	C24H40F6O13
SMILES:	O=C(OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]:	650.56

Physical Properties

Property code	Value	Unit	Source
gf	-2424.82	kJ/mol	Joback Method
hf	-3412.43	kJ/mol	Joback Method
hfus	77.83	kJ/mol	Joback Method
hvap	101.53	kJ/mol	Joback Method
log10ws	-0.70		Crippen Method
logp	1.347		Crippen Method
mcvol	427.350	ml/mol	McGowan Method
pc	687.09	kPa	Joback Method
rinpol	2923.70		NIST Webbook
tb	1092.04	K	Joback Method
tc	1435.07	K	Joback Method
tf	713.01	K	Joback Method
vc	1.675	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1514.42	J/mol×K	1092.04	Joback Method
cpg	1524.41	J/mol×K	1149.21	Joback Method
cpg	1527.55	J/mol×K	1206.38	Joback Method
cpg	1523.65	J/mol×K	1263.55	Joback Method
cpg	1512.51	J/mol×K	1320.72	Joback Method
cpg	1493.96	J/mol×K	1377.89	Joback Method
cpg	1467.79	J/mol×K	1435.07	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351895&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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